

PATENT

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Harry Lee

Applicant: Sung-Ho RYU et al.

Serial No.: 10/774,147

Filed: February 6, 2004

Title: **LEUKOCYTE STIMULATING
PEPTIDES**

Examiner: N/A

Art Unit: 1653

Attorney Docket No.: 10050-03USA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed below and on the attached Form PTO/SB/08A (substitute for form 1449/PTO) are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), as an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. Copies of the cited documents are enclosed.

English Language Non-Patent Documents:

1. WU et al., Roles of phospholipid signaling in chemo attractant-induced responses, Journal of Cell Science, 2000; 113:2935-2940
2. SCHMITT et al., Induction of T cell development and establishment of T cell competence from embryonic stem cells differentiated *in vitro*, Nature immunology, 2004; 5:410-417

3. FAROOQUI et al., Phospholipase A2 and Its Role in Brain Tissue, *Journal of Neurochemistry*, 1997, 69:889-901
4. GIJON and LESLIE, Regulation of arachidonic acid release and cytosolic phospholipase A₂ activation, *Journal of Leukocyte Biology*, 1999; 65:330-336
5. GRYNKIEWICZ et al., A New Generation of Ca²⁺ Indicators with Greatly Improved Fluorescence Properties, *Journal of Biological Chemistry*, 1985; 260:3440-3450
6. HAYASHI et al., Synthetic Hexa- and Heptapeptides that inhibit IL-8 from Binding to and Activating Human Blood Neutrophils, *The Journal of Immunology*, 1995; 154:814-824
7. HE et al., The Synthetic Peptide Trp-Lys-Tyr-Met-Val-D-Met is a potent chemotactic Agonist for Mouse Formyl Peptide Receptor, *The Journal of Immunology*, 2000; 165:4598-4605
8. HIEMSTRA et al., Definition of Natural T Cell Antigens with Mimicry Epitopes Obtained from Dedicated Synthetic Peptide Libraries, *The Journal of Immunology*, 1998; 161:4078-4082
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12. MURTHY and MAKHLOUF, Differential Regulation of Phospholipid A₂(PLA₂)-dependent. Ca²⁺ Signaling in smooth muscle by camp- and cGMP-dependent Protein Kinases, *Journal of Biological Chemistry*, 1998; 273:34519-34526

13. PAN et al., fMet-Leu-Phe Stimulates Proinflammatory Cytokine Gene Expression in Human Peripheral Blood Monocytes: The Role of Phosphatidylinositol 3-Kinase, *Journal of Immunology*, 2000; 164:404-411
14. PROSSNITZ et al., Signal Transducing Properties of the N-formyl Peptide Receptor Expressed in Undifferentiated HL60 Cells, *Journal of Immunology*, 1993; 151:5704-5715
15. PURI, Phospholipase A2: its role in ADP- and thrombin-induced platelet activation mechanisms, *International Journal of Biochemistry and Cell Biology*, 1998; 30:1107-1122
16. RABIN et al., Chemokine Receptor Responses on T Cells are achieved through regulation of both receptor expression and signaling, *Journal of Immunology*, 1999; 162:3840-3850
17. ROBSON et al., Differential Regulation of Chemokine Production in Human Peritoneal Mesothelial Cells: IFN- γ Controls Neutrophil Migration Across the Mesothelium In Vitro and In Vivo, *Journal of Immunology*, 2001; 167:1028-1038
18. ARAMBURU et al., Affinity-Driven peptide selection of an NFAT Inhibitor More Selective than Cyclosporin A, *Science*, 1999; 285:2129-2133
19. BADOLATO et al., Serum Amyloid A Induces Calcium Mobilization and Chemotaxis of Human Monocytes by Activating a Pertussis Toxin-Sensitive Signaling Pathway, *Journal of Immunology*, 1995; 155:4004-4010
20. BAE et al., Identification of novel chemoattractant peptides for human leukocytes, *Blood*, 2001; 97:2854-2862
21. BAE et al., Trp-Lys-Tyr-Met-Val-D-Met stimulates superoxide generation and killing of *Staphylococcus aureus* via phospholipase D activation in human monocytes, *Journal of Leukocyte Biology*, 1999; 65:241-248


22. BAE et al., Independent Functioning of Cytosolic Phospholipase A2 Phospholipase D1 in Trp-Lys-Tyr-Met-Val-D-Met-Induced Superoxide Generation in Human Monocytes, Journal of Immunology, 2000; 164:4089-4096
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27. DANA et al., Essential Requirement of Cytosolic Phospholipase A2 for Activation of the Phagocyte NADPH Oxidase, Journal of Biological Chemistry, 1998; 273:441-445
28. DOOLEY et al., Selective Ligands for the μ , δ , and κ Opioid Receptors Identified from a Single Mixture Based Tetrapeptide Positional Scanning Combinatorial Library, Journal of Biological Chemistry, 1998; 273:18848-18856
29. ROBINSON et al., Activation of Phospholipase A2 in human neutrophils by polyunsaturated fatty acids and its role in stimulation of superoxide production, Biochem. J., 1998; 336:611-617
30. SANO et al., Human Galectin-3 is a Novel Chemoattractant for Monocytes and Macrophages, Journal of Immunology, 2000; 165:2156-2164
31. SEO et al., A Peptide with Unique Receptor Specificity, Journal of Immunology, 1997; 158:1895-1901

32. SUGDEN and CLERK, Regulation of the ERK Subgroup of MAP Kinase Cascades Through G Protein-Coupled Receptors, Cell. Signal, 9:337-351
33. WILSON et al., Immunogenicity. I. Use of Peptide Libraries to Identify Epitopes that activate clonotypic CD4+ T Cells and Induce T Cell Responses to Native Peptide Ligands, Journal of Immunology, 1999; 163:6424-6434
34. WOO et al., Leukotriene B4 Stimulates Rac-ERK Cascade to Generate Reactive Oxygen Species that Mediates Chemotaxis, Journal of Biological Chemistry, 2002; 277:8572-8578

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached Form PTO/SB/08A with initials or other appropriate marks, and that the references be made of record as cited references in the application.

Respectfully submitted,

Dated May 13, 2004


Joseph Hyosuk Kim, Ph.D.
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FORM**

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/774,147	
	Filing Date	02/05/2004	
	First Named Inventor	Sung-Ho RYU	
	Art Unit	1653	
	Examiner Name	N/A	
Total Number of Pages in This Submission	10 + Ref.	Attorney Docket Number	10050-03USA

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Firm or Individual name	Joseph Hyosuk Kim Reg. No. 41,425 JHK Law
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Date	May 13, 2004

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/774,147
Filing Date	February 6, 2004
First Named Inventor	Sung-Ho RYU et al
Art Unit	1653
Examiner Name	N/A
Attorney Docket Number	10050-03USA

Sheet 1 of 4

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	WU et al., Roles of phospholipid signaling in chemoattractant-induced responses, Journal of Cell Science, 2000; 113:2935-2940	
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		First Named Inventor	Sung-Ho RYU et al
		Art Unit	1653
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Sheet 3	of 4	Attorney Docket Number	10050-03USA

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Sheet 4	of 4	Attorney Docket Number 10050-03USA	

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